



後記号なし

実用新案登録願 (2)

(¥1,500円)

昭和49年2月27日

特許庁長官殿

1. 考案の名称 伸縮自在の物干竿

2. 考案者

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4. 添附書類の目録

(1) 明細書 1通

(2) 図面 1通

(3) (願書副本 1通)

49 62154



明 細 書

1. 考案の名称

伸縮自在の物干竿

2. 実用新案登録請求の範囲

差込管(1)の一端に締付ねじ(2)を差込栓(3)を介し固着し、押圧体(8)の底面部の挿通孔(10)を前記締付ねじ(2)に挿通すると共に、底面部より側面へ形状に、上方を広く曲折した押圧片(9)…(9)に内接する締付片(11)を螺着し、中央管(5)の両面より、前記差込管(1)(1)を押圧体(8)(8)の押圧部(12)…(12)を内接させて差込み、中央管(5)両端には密着蓋(6)(6)を差込み、差込管(1)(1)の両端にはキャップ(4)(4)を冠着させた伸縮自在の物干竿。

3. 考案の詳細な説明

この考案は、伸縮自在とした物干竿に関するもので、運搬時には短かく、使用時には伸張できるようにした物干竿の構造に係るものである。



図面について説明すれば、(1)は差込管で締付ねじ(2)を有する差込栓(3)を基端内壁に固着すると共に他端にはキャップ(4)を冠着するものである。(5)は中央管で前記差込管(1)(1)が差込みできるパイプで、左右より差込管(1)(1)を差込み収納できる長さとしたもので、その両端には差込管(1)(1)の外周面に密着する摺動部(7)を持った摺動蓋(6)(6)を差込み取付けするものである。(8)は押圧体で平面十字形状に打抜きした平板の押圧片(9)…(9)の4片を底面部(10)より側面(11)形状に上方を広く曲折形成し、底面部中央に締付ねじ(2)の挿通孔(12)を穿設し、押圧片(9)…(9)の上端外面の押圧部(13)…(13)は弾性により、これを挿着する中央管(5)の内壁面に軽く接触するよう形成させ、取付時は押圧部が拡張してパイプ内壁に圧着して固着できるようにしたものである。(14)は締付片で方形の平板の中央部に締付ねじ(2)に螺着するねじ(14)を螺設し、外面は前記押圧片(9)…(9)の内面に当接する押圧面(15)…(15)を形成させたも

のである。

本案は、このように構成し、左右の差込管(1)(1)の先端の締付ねじ(2)に押圧体(8)の挿通孔(11)を差込栓(3)に接して差込むと共に、締付片(10)をねじ込み、押圧面(15)と押圧片(9)の内面が軽く接触する程度とし、押圧部(12)を中央管(5)の内壁面に当接させて差込み、中央管(5)の両端には摺動蓋(6)(6)を差込み、差込管(1)(1)の各先端にはキャップ(4)(4)を冠着させれば、この物干竿は組立てられる。

差込管(1)(1)を一ぱい差込めば短かくて持ち運びに便利であり、使用する時は差込管(1)(1)を左右に引き出し、差込管(1)(1)をそれぞれ締付ねじ(2)で締付片(10)が締まる方向に回動させれば、締付片(10)は引きよせられ、押圧片(9)…(9)は外方に押し出され押圧部(12)…(12)は中央管(5)の内壁面を強く押圧し、差込管は固着できるものである。

又、逆方向に回動させれば押圧はゆるみ、自由に摺動でき差込管を収納することができる。

-4-

このように、この物干竿は収納すれば短くなり運搬に便利であり、引き伸ばせば長さは元の約二倍となり、三本のパイプは強固に固着して一本の竿となり、一本物の物干竿と変わりなく使用できる、一般に物を干した場合、荷重は中央部に一番強く作用するが、本案のものは中央部は両端のものより太いパイプを使用するので、荷重に対しては、一本物の同一径のものより有利な構造となった。摺動蓋(6)(6)を差込み、キャップ(4)(4)を冠着して竿全体を気密状としたので、雨水の浸入することなく発錆も防止でき、実用効果の大きい物干竿を得たものである。

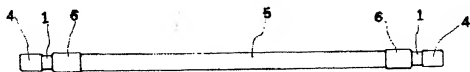
#### 4. 図面の簡単な説明

第1図は竿を縮めた状態の正面図、第2図は引伸ばした状態の一部を破断して示した正面図、第3図は縮付部品の分解斜視図、第4図は縮付前の要部の横断面と縦断面、第5図は同じく縮付後の断面図である。

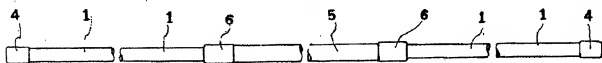
1	差込管	2	縮付ねじ
3	差込栓	4	キャップ
5	中央管	6	摺動蓋
7	摺動部	8	押圧体
9	押圧片	10	底面部
11	挿通孔	12	押圧部
13	縮付片	14	ねじ
15	押圧面		

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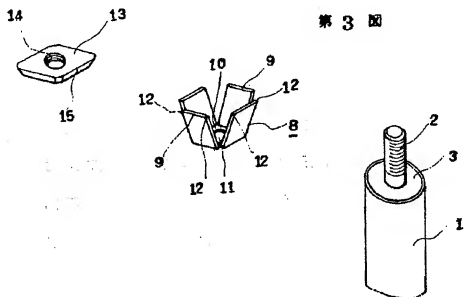
第 1 図



第 2 図



第 3 図



実用新案登録出願人

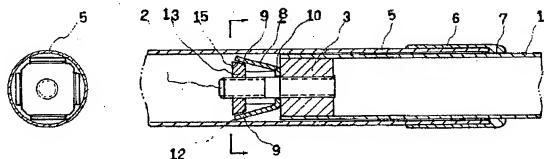
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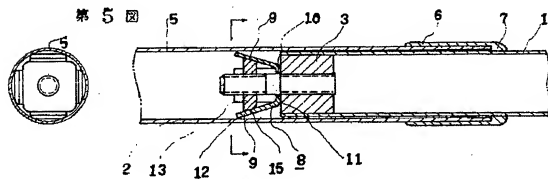
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代 表 者 國 盛 芳 一

第 4 圖



第 5 圖



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112424  $\frac{2}{3}$

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Japanese Unexamined Utility Model Application S50-112424

No suffix

Japanese Utility Model Application (2)

[Rolling stamp: Patent Office, [revenue stamps] voided]

[Japanese government revenue stamp, 1000 yen]

[Japanese government revenue stamp, 500 yen]

(1,500 Yen)

February 21, 1974

Patent Office Commissioner

[stamp: [Applicable]]

1. Title of the Invention

*Telescoping Laundry Pole*

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[stamp: Format Inspected]

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4. List of Documents

(1) Specification 1 copy

(2) Drawings 1 copy

(3) (Copy of Application 1 copy)

49-02154[illegible]

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## SPECIFICATION

### 1. Title of the Invention

#### Telescoping Laundry Pole

### 2. Scope of Utility Model Claims

A telescoping laundry pole wherein a tightening screw 2 is fixed via an insertion plug 3 to one end of an insertion tube 1, an insertion hole 10 in the bottom surface of a press body 8 is fit over said tightening screw 2, and, along therewith, a tightening piece 13 that contacts the insides of press tabs 9, . . . 9 that are bent so that they widen upwards from the bottom part so as to have a U-shaped profile is screwed on, said insertion tubes 1, 1 are inserted from both surfaces of the center tube 5 causing the press parts 12, . . . 12 of the press bodies 8, 8 to contact the inside, close-contact lids 6, 6 are fit over both ends of the center tube 5, and caps 4, 4 are capped over both ends of the insertion tubes 1, 1.

### 3. Detailed Description of the Invention

This invention relates to a telescoping laundry pole and concerns the structure of a laundry pole that can be made shorter during transport and elongated during use.

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-2-

In reference to the figures, 1 denotes an insertion tube having an insertion plug 3 that has a tightening screw 2 and is fixed to the inner wall of the base end and having a cap 4 capped on the other end. 5 is a center tube that is a pipe into which the aforementioned insertion tubes 1, 1 can insert, having a length whereby the insertion tubes 1, 1 can insert from the left and right. At both ends thereof are fitted sliding caps 6, 6 having sliding parts 7 that fit tightly against the outer circumferential wall of the insertion tubes 1, 1. 8 is a press body wherein four flat plate-form press tabs 9, ... 9 that are punched out in the shape of a planar cross are formed so as to curve roughly upwards from the bottom surface 10 in the shape of a U. An insertion hole 11 for the tightening screw 2 is made in the middle of the bottom surface. The press parts 12, ... 12 on the outer surface on the upper ends of the press tabs 9, ... 9 are elastic and formed so that they lightly contact the inner wall surfaces of the center tube 5 into which they insert. At the time of attachment, the press parts expand and attach by pressing on the inner walls of the pipe, thereby allowing fixing. 13 is a tightening piece that has threading 14 that threads onto the tightening screw 2 provided in the center of the square flat plate and press surfaces 15, ... 15 formed on the outer surfaces that abut with the inner surfaces of the press tabs 9, ... 9.

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-3-

With the invention constituted in this manner, the insertion hole 11 of the press body 8 inserts so as to contact the insertion plug 3 on the tightening screw 2 at the end of the left and right insertion tubes 1, 1. As the tightening piece 13 is screwed on, the inner surfaces of the press tabs 9 lightly contact with the press surfaces 15, and the press part 12 abuts the inner wall surface of the center tube 5 and inserts therein. Sliding caps 6, 6 are fitted onto the two ends of the center tube 5, and caps 4, 4 cap the respective ends of the insertion tubes 1, 1, thereby producing the laundry rod assembly.

Fully inserting the insertion tubes 1, 1 to shorten the rod is convenient for carrying. At the time of use, the insertion tubes 1, 1 are pulled to the left and right, and the insertion tubes 1, 1 are rotated in a direction whereby the tightening piece 13 is tightened as a result of the tightening screw 2. The tightening pieces 13 are thus drawn in, the press tabs 9, . . . 9 are pushed outwards, and the press tabs 12, 12 press forcefully on the inner surfaces of the center tube 5, thereby allowing the insertion tubes to be fixed.

In addition, when rotated in the opposite direction, the pressure is reduced, and the insertion tubes can be slid and housed inside.

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In this manner, the laundry pole can be shortened by housing the tubes inside, which is convenient for carrying. By pulling the tubes outwards, the length can be nearly doubled, and the three pipes can be fixed firmly to form an integrated pole that can be used in the same manner as a single laundry pole. When common articles are to be dried, the load is the strongest at the center part. In the present invention, however, a pipe that is thicker than those at the two ends is used for the center part, and thus the structure is more useful than single poles having a constant diameter. The sliding caps 6, 6 are inserted, the caps 4, 4 are capped, and the laundry pole is thus air-tight, so that ingress of rain water and the occurrence of rust are prevented. A laundry pole that has excellent practical merits is thus obtained.

#### 4. Brief Description of the Drawings

Fig. 1 is a plan view showing the contracted state of the pole. Fig. 2 is a partially broken plan view showing the extended pole. Fig. 3 is an exploded oblique view of the tightening part. Fig. 4 shows a horizontal section and vertical section of the essential parts prior to tightening. Fig. 5 is a sectional view of the same after tightening.

1	Insertion tube	2	Tightening screw
3	Insertion plug	4	Cap
5	Center tube	6	Sliding lid
7	Sliding part	8	Press body
9	Press tab	10	Bottom surface part
11	Insertion hole	12	Press part
13	Tightening piece	14	Screw
15	Press surface		

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Figure 1  
[see source for figure]

Figure 2  
[see source for figure]

Figure 3  
[see source for figure]

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Figure 4  
[see source for figure]

Figure 5  
[see source for figure]

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